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ABSTRACT

The kinds of work that college degree holders may consider are presented in this document as three columns of information. Ninety-four different college majors are listed in the first column. In the second column, entitled "primary codes," occupational groups are listed which by custom, and in some cases, by job title and legal licensure, relate directly to a specific college degree. In the third column, secondary codes, less usually associated occupational groups are listed for each degree. Two- or three-digit numbers, derived from the Dictionary of Occupational Titles (DOT) are used with the occupational group titles in both the primary and secondary code columns. (Some college majors listed show no primary codes because these majors have not been found to have qualifications for any specific occupations or group of occupations. The user of this document is referred to materials in the secondary codes groups and to those listed under "any major," which include occupations for which qualifications may be for any college degree.) (JH)

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DEGREE TO D. O. T.

--or Relating Academic Credentials to the World of Work

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CE 016 455

DEGREE TO D.O.T.: A Conversion Table From College Degree To Dictionary of Occupational Titles (D.O.T.) Code Group

This is a "conversion table" or list of usual jobs for holders of certain college degrees along with a list of less usual job possibilities for those degree holders. It is intended to suggest kinds of work the degree holder may consider. This system was originally developed for use with an occupational library arranged by the first three digits of the Dictionary of Occupational Titles code. However, it can also be used to suggest possible alternate occupations or occupational groups, of which the holder of the college degree should be aware.

The primary codes listed represent occupational groups which by custom, and in some cases also by job title and legal licensure, relate directly to certain college degrees. A degree in "Nursing", for example, obviously relates to work as a nurse. This job is listed in the Dictionary of Occupational Titles as "Registered Nurse" with an occupational group code number of 075. This code and title are listed in this publication under the heading of Primary Code for this degree or field of study. While this is an obvious relationship, many others are not. The Secondary Code listings consist of less usual or obvious relationships between college degree and job qualification.

For example, the code 007 represents jobs included in the occupational group Mechanical Engineering. This is an obvious relationship to the degree Mechanical Engineering, so 007 is listed in the Primary Code column. Reviews of occupational literature indicate that employers of chemical engineers and those seeking industrial engineers sometimes accept degrees in mechanical engineering. Inclusion of the 163 Sales and Distribution Management group indicates that some employers seeking sales personnel prefer employees with degrees in mechanical engineering. All listings in both the Primary Code and Secondary Code columns have been included because a search of occupational materials, or talks with employers, or both, have indicated the degree, either consistently or occasionally, serves as a basic educational qualification for one or more jobs found in that group.

Some two-digit codes have been used. The two-digit code designates a broader grouping which includes several of the more specific three-digit occupational group codes which begin with the same two numbers. The two-digit code is used when the degree or field of study leads to a broader range of potential occupations. For example, the two-digit code 16 is shown as a primary code for the degree Business Administration. The specific three-digit code 161 designates Budget and Management Analysis occupations, 162 designates Purchasing Management occupations, and 166 Personnel and Training Administration occupations. A degree in Business Administration serves as basic educational qualifications for a number of jobs in each of these three-digit groups, so a review of jobs in several of the three-digit groups under the two-digit 16 breakdown would be worthwhile.

It should be noted that some college degree listings show no primary codes. This is due to the fact that these majors have not been found to be basic qualification for any specific occupations or groups of occupations. Because of this, the user should refer to materials in the secondary code groups and to those listed under "Any Major", which include occupations for which qualification may be any college degree.

Obviously this list is not final, because as long as employers change job qualifications and new jobs appear, there will be changes and additions. There are also differences between geographic areas. The user should continue to make his own additions to this list of suggestions whenever appropriate code references are encountered.

College Major	Primary Code	Secondary Code
Accountant	160 - Accountants and Auditors	
		162 - Purchasing Management
		020 - Mathematics
		16 - Administrative Specializations
Aeronautical Engineering	002 - Aeronautical Engineering	
		020 - Mathematics
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
		00 - Architecture and Engineering
Agriculture	040 - Agricultural Sciences	
Anthropology	055 - Anthropology	
		102 - Museum Curators and Related
		05 - Social Sciences
Architecture	001 - Architectural	
		00 - Architecture and Engineering
		199 - Miscellaneous Professional, Technical, and Managerial Work, n.e.c.
Astronomy	021 - Astronomy	
Bacteriology	041 - Biological Sciences	
		04 - Life Sciences
		16 - Administrative Specializations
		168 - Inspectors and Investigators, Managerial and Public Services
Biological Sciences	04 - Life Sciences	
		07 - Medicine and Health
		09 - Education
		168 - Inspectors and Investigators, Managerial and Public Services

College Major	Primary Code	Secondary Code
Biology	041 - Biological Sciences	
		04 - Life Sciences
		100 - Librarians
		168 - Inspectors and Investigators, Managerial and Public Services
		266 - Sales Representatives, Chemicals and Drug Preparation
Biomedical Engineering	00 - Architecture and Engineering	
	07 - Medicine and Health	
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
Business Administration	16 - Administrative Specializations	
	18 - Managers and Officials, n.e.c.	
		195 - Social and Welfare Work
		186 - Finance, Insurance, and Real Estate Managers and Officials
		183 - Manufacturing Industry Managers and Officials
		020 - Mathematics
		160 - Accountants and Auditors
		241 - Adjusters
		168 - Inspectors and Investigators, Managerial and Public Service
		250 - Sales Agents, Real Estate and Insurance
Business Economics	See Business Administration	
Cellular-Molecular Biology	041 - Biological Sciences	
		04 - Life Sciences

College Major	Primary Code	Secondary Code
Chemical Engineering	008 - Chemical Engineering	
		00 - Architecture and Engineering
		020 - Mathematics
		18 - Managers and Officials, n.e.c.
		022 - Chemistry
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives and Salespersons, Commodities
		012 - Industrial Engineering
		163 - Sales and Distribution Management
Chemistry	022 - Chemistry	
		02 - Mathematics and Physical Sciences
		100 - Librarians
		18 - Managers and Officials, n.e.c.
		168 - Inspectors and Investigators, Managerial and Public Service
		376 - Police Officers and Detectives, except in Public Service
		040 - Agricultural Sciences
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
		012 - Industrial Engineering
		163 - Sales and Distribution Management Occupations
		266 - Sales Representatives, Chemicals and Drug Preparations
Cinema	194 - Sound Recording, Transcribing, and Reproduction	
		19 - Miscellaneous Professional, Technical, and Managerial
		159 - Entertainment and Recreation
		14 - Art

College Major	Primary Code	Secondary Code
Civil Engineering	005 - Civic Engineering	
		00 - Architecture and Engineering
		020 - Mathematics
		010 - Mining and Petroleum Engineering
		017 - Drafters, n.e.c.
		199 - Miscellaneous Professional, Technical, and Managerial
		373 - Fighters, Fire Department
City and Regional Planning	199 - Miscellaneous Professional, Technical, and Managerial	
Communicative Disorders	079 - Medicine and Health, n.e.c.	
Comparative Literature		100 - Librarians
		09 - Education
Computer Science	020 - Mathematics	
		02 - Mathematics and Physical Sciences
		050 - Economics
		16 - Administrative Specializations
		18 - Managers and Officials, n.e.c.
		25 - Sales Representatives, Services
Dance	151 - Dancing	
		15 - Entertainment and Recreation
Data Processing	See Business Administration and Mathematics	
Dental Hygiene	078 - Medical and Dental Technology	
		07 - Medicine and Health
Dentistry	072 - Dentists	
Drama	150 - Dramatics	

College Major	Primary Code	Secondary Code
Economics	050 - Economics	05 - Social Sciences
		029 - Mathematics and Physical Sciences, n.e.c.
		100 - Libriarians
		16 - Administrative Specializations
		18 - Managers and Officials, n.e.c.
		184 - Transportation, Communication, and Utilities Industry Managers and Officials
Education	09 - Education	
Electrical Engineering	003 - Electrical Engineering	
		00 - Architecture and Engineering
		020 - Mathematics
		008 - Chemical Engineering
		010 - Mining and Petroleum Engineering
		012 - Industrial Engineering
		018 Surveyors, n.e.c.
		024 - Geology
		142 - Designers
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
		373 - Fire Fighters, Fire Department
Electronic Engineering	003 - Electrical Engineering	
		012 - Industrial Engineering
Engineering	00, 01 - Architecture and Engineering	
English		

College Major	Primary Code	Secondary Code
Environmental Engineering	00, 01 Architecture and Engineering	017 - Drafters, n.e.c. 020 - Mathematics 199 - Miscellaneous Professional, Technical, and Managerial Occupations, n.e.c.
Finance	See Business Administration	
Fine Arts	14 - Art	
Food Distribution	262 - Sales Representatives, Foodstuffs, Beverages, and Tobacco	
Food Marketing Management	See Business Administration	
Foreign Languages		100 - Librarians 16 - Administrative Specializations 18 - Managers and Officers, n.e.c.
Geological Engineering		010 - Mining and Petroleum Engineering
Geological Sciences	024 - Geology	
Geology	024 - Geology	018 - Surveyors, n.e.c. 02 - Mathematics and Physical Sciences 029 - Mathematics and Physical Sciences, n.e.c. 373 - Fire Fighters, Fire Department
Geophysics	024 - Geology	

College Major	Primary Code	Secondary Code
History	052 - History	
		029 - Mathematics and Physical Sciences, n.e.c.
		05 - Social Sciences
		09 - Education
		101 - Archivists
Industrial Relations	183 - Manufacturing Industry Managers and Officials	
	186 - Finance, Insurance, and Real Estate Managers and Officials	
Industrial Engineering	012 - Industrial Engineering	
		008 - Chemical Engineering
		01 - Architecture and Engineering
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representative, Commodities
International Business	16 - Administrative Specializations	
	18 - Managers and Officials, n.e.c.	
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
International Public Administration	188 - Public Administration Managers and Officials	
		16 - Administrative Specializations
		18 - Managers and Officials, n.e.c.
		195 - Social and Welfare Work
International Relations	188 - Public Administration Managers and Officials	
		18 - Managers and Officials, n.e.c.
International Trade	See Business Administration	
Journalism	13 - Writing	

College Major	Primary Code	Secondary Code
Jurisprudence	11 - Law and Jurisprudence	
Landscape Architecture	019 - Architecture and Engineering, n.e.c.	
Library Science	100 - Librarians	
Liberal Arts		050 - Economics 289 - Sales Representatives, Commodities, n.e.c.
Linguistics		
Management	See Business Administration	
Management Science	16 - Administrative Specializations 18 - Managers and Officials, n.e.c.	
Marketing	16 - Administrative Specializations	050 - Economics 162 - Purchasing Management 185 - Wholesale and Retail Trade Managers and Officials 289 - Sales Representatives, Commodities, n.e.c.
Materials Science	003 - Electrical Engineering	00 - Architecture and Engineering 012 - Industrial Engineering
Mathematics	020 - Mathematics	02 - Mathematics and Physical Sciences 012 - Industrial Engineering 050 - Economics 018 - Surveyors, n.e.c. 100 - Librarians 250 - Sales Agents, Real Estate and Insurance

College Major	Primary Code	Secondary Code
Mechanical Engineering	007 - Mechanical Engineering	
		00 - Architecture and Engineering
		008 - Chemical Engineering
		012 - Industrial Engineering
		018 - Surveyors, n.e.c.
		010 - Mining and Petroleum Engineering
		020 - Mathematics
		142 - Designers
		163 - Sales and Distribution Management
		18 - Managers and Officials, n.e.c.
		19 - Miscellaneous Professional, Technical, and Managerial
		26 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
Medicine	07 - Medicine and Health	
		266 - Sales Representatives, Chemicals and Drug Preparations
Metallurgical Engineering	011 - Metallurgy and Metallurgical Engineering	
		012 - Industrial Engineering
Music	152 - Music	
		079 - Medicine and Health, n.e.c.
		100 - Librarians
		18 - Managers and Officials, n.e.c.
Nursing	075 - Registered Nurse	
		07 - Medicine and Health
Nutrition	077 - Dietitians	
		07 - Medicine and Health

College Major	Primary Code	Secondary Code
Ocean Engineering	024 - Geology	
		00 - Architecture and Engineering
		02 - Mathematics and Physical Sciences
		041 - Biological Sciences
Occupational Therapy	079 - Medicine and Health, n.e.c.	
		07 - Medicine and Health
Operations Research	020 - Mathematics	
		02 - Mathematics and Physical Sciences
Pathology	070 - Physicians and Surgeons	
		07 - Medical and Health
		266 - Sales Representatives, Chemicals and Drug Preparations
Personnel - Industrial Relations	See Business Administration	
Petroleum Engineering	010 - Mining and Petroleum Engineering	
		00, 01 - Architecture and Engineering
		008 - Chemical Engineering
Pharmacy	074 - Pharmacists	
		07 - Medicine and Health
		266 - Sales Representatives, Chemicals and Drug Preparations
Philosophy	05 - Social Sciences	
Physical Education	153 - Athletics and Sports	
		079 - Medicine and Health, n.e.c.
		15 - Entertainment and Recreation
		195 - Social and Welfare Work
Physical Sciences		373 - Fire Fighters, Fire Department

College Major	Primary Code	Secondary Code
Physical Therapy	079 - Medicine and Health, n.e.c.	
		07 - Medicine and Health
Physics	023 - Physics	
		00, 01 - Architecture and Engineering
		012 - Industrial Engineering
		022 - Chemistry
		024 - Geology
		040 - Agricultural Sciences
		100 - Librarians
		25 - Sales Representatives, Services
		26, 27, 28 - Sales Representatives, Commodities
		373 - Fire Fighters, Fire Department
Physiology	041 - Biological Sciences	
		04 - Life Sciences
		168 - Inspectors and Investigators, Managerial and Public Service
Planning, Urban, and Real Estate	199 - Miscellaneous Professional, Technical, and Managerial Occupations, n.e.c.	
		19 - Miscellaneous Professional, Technical, and Managerial Occupations, n.e.c.
Political Science	051 - Political Science	
		029 - Mathematics and Physical Sciences, n.e.c.
		05 - Social Sciences
Production Management	See Business Administration	

College Major	Primary Code	Secondary Code
Psychology	045 - Psychology	
		04 - Life Sciences
		100 - Librarians
		166 - Personnel and Training Administration
		183 - Manufacturing Industry Managers and Officials
Public Administration		16 - Administrative Specializations
		166 - Personnel and Training Administration
		18 - Managers and Officials, n.e.c.
		195 - Social and Welfare Work
Public Relations	165 - Public Relations Management	
		187 - Service Industry Managers and Officials
Quantitative Business Analysis	See Business Administration	
Religion	12 — Religion and Theology	
Social Work	195 - Social and Welfare Work	
		187 - Service Industry Managers and Officials
		188 - Public Administration Managers and Officials
		19 - Miscellaneous Professional, Technical, and Managerial
Social Sciences	059 - Social Sciences, n.e.c.	
		05 - Social Sciences
Sociology	054 - Sociology	
		090 - College and University Education
		142 - Designers
		188 - Public Administration Managers and Officials
		199 - Miscellaneous Professional, Technical, and Managerial, n.e.c.

College Major	Primary Code	Secondary Code
Soil Science	040 - Agricultural Sciences	
Speech Communication		09 - Education
Systems Management	012 - Industrial Engineering	
Telecommunications	159 - Entertainment and Recreation, n.e.c.	
Urban Design	199 - Miscellaneous Professional, Technical, and Managerial, n.e.c.	
Any Major	16 - Administrative Specializations	
	18 - Managers and Officials, n.e.c.	
	25 - Sales Representatives, Services	
	26, 27, 28 - Sales Representatives, Commodities	